



## SAFETY DATA SHEET

According to  
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

### Section 1. Identification of the material and the supplier

Product: **IPA 70% Isopropyl Alcohol**  
Other Names: IPA 70% Isopropyl Alcohol  
Product Use: Cleaning and Sanitising Solvent  
Restriction of Use: Refer to Section 15

New Zealand Supplier: **2CARE PRODUCTS**  
Address: 9 Donnor Place  
Mt Wellington  
Auckland

Telephone: 0800 753 753  
Fax: 09 574 5999  
**Emergency No: 0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 16 June 2022 v2

### Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

**EPA Approval No: Solvents (Flammable) – HSR002650**

#### Pictograms:



Signal Word: **DANGER**

GHS Classification and Category	HSNO Classification	Hazard Code	Hazard Statement
Flammable Liquids Cat. 2	3.1B	H225	Highly flammable liquid and vapour.
Eye irritation Cat. 2	6.4A	H319	Causes serious eye irritation.

Prevention Code	Prevention Statement
P103	Read label before use.
P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground, bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating and lighting.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash hands thoroughly after handling.

P280	Wear protective clothing as detailed in Section 8.
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Response Code	Response Statement
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use foam and water fog for extinction.

Storage Code	Storage Statement
P403 + P235	Store in a well-ventilated place. Keep cool.

Disposal Code	Disposal Statement
P501	Do not let this product enter the environment. Do not dispose of in waterways or sewers. Dispose of this material and its container as hazardous waste, via a licensed facility. See local council for disposal/recycling information.

### Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Isopropyl Alcohol	70%	67-63-0
Non-Hazardous ingredients	To bal	Proprietary

### Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

If on Skin Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/ attention.

If Swallowed Do not induce vomiting. Rinse mouth. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Call a POISON CENTER or doctor/physician if you feel unwell.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

#### Most important symptoms and effects, both acute and delayed

Symptoms:

**Ingestion:** Not applicable  
**Inhalation:** Not applicable  
**Skin:** Not applicable  
**Eye:** Causes severe eye irritation.

**Notes to Doctor:** Treat symptomatically based on judgement of doctor and individual reactions of patient.

### Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Highly flammable Liquid
<b>Fire and explosion hazards</b>	Severe Fire Hazard when exposed to Oxidisers. May form flammable vapour mixtures with air. Avoid all ignition sources. Can be considered a severe explosive hazard when exposed to heat, flame and/or oxidisers. Intrinsically safe equipment necessary in area where chemical is being used. Nearby equipment must be earthed. Vapour may travel considerable distance to source of ignition and flash back.
<b>Hazards from combustion products</b>	On burning will emit toxic fumes of carbon monoxide. The packaging material may also burn to emit noxious fumes.
<b>Suitable Extinguishing media</b>	Dry agent (Carbon Dioxide), Sand, Dolomite. DO NOT extinguish fire unless flow can be stopped first.
<b>Precautions for firefighters and special protective clothing</b>	Wear self-contained, breathing apparatus, if risk of exposure to vapour or products of combustion. And protective gloves and boots. Keep upwind. Consider evacuation. Shut off all possible sources of ignition. If safe to do so, remove containers from path of fire. Keep containers cool with water spray. Heating can cause expansion or decomposition leading to a violent rupture of containers.
<b>HAZCHEM CODE</b>	<b>2YE</b>

## Section 6. Accidental Release Measures

### General Response Procedures:

Clear area of all unprotected personnel. Allow only trained personnel wearing appropriate protective equipment to be involved in spill response. Shut off all possible sources of ignition. Use clean, non-sparking tools and equipment.

### Environmental Precautionary Measures:

Do NOT allow firefighting water or chemical to reach waterways, drains or sewers. Store firefighting water for treatment.

### Clean Up Procedures:

Stop leak if safe to do so. Soak up spilled product using absorbent non-combustible material such as sand, earth or vermiculite. Collect this material and seal in properly labelled containers for disposal. Wash area down with excess water. Dispose as per Section 13.

## Section 7. Handling and Storage

### Precautions for Handling:

- Read label before use.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Keep container tightly closed.
- Ground, bond container and receiving equipment.
- Use explosion-proof electrical, ventilating and lighting.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Wash hands thoroughly after handling.
- Wear protective clothing as detailed in Section 8.
- Ensure an eye bath and safety shower are available and ready for use.
- Observe good personal hygiene practices and recommended procedures.
- Avoid contact with eyes, skin and clothing. Do not inhale product vapours. Avoid prolonged or repeated exposure.
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked.
- Vapour may ignite on pumping or pouring due to static electricity, earth and secure metal containers when dispensing or pouring product.

### Precautions for Storage:

- Store in well-ventilated area and away from sources of ignition and heat.

- Store in cool, dry place and out of direct sunlight.
- Store away from oxidising agents, alkali metals, acids, acid chlorides, ammonia.
- In case of flexible tubing usage, check with manufacturer to find product compatibility.
- Ground the container and transfer equipment to eliminate static electric sparks.
- Keep container closed at all times.
- Check regularly for leaks.

## Section 8 Exposure Controls / Personal Protection

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Isopropyl alcohol [67-63-0]	400	983	500	1230

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13<sup>TH</sup> EDITION.

### Engineering Controls

General mechanical ventilation is considered satisfactory in enclosed spaces. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use. Earth all containers to reduce the possibility of sparks from static electricity. Flameproof equipment to be used with this product.

### Personal Protection Equipment



<b>Eyes</b>	Use splash proof safety goggles, and/or if necessary an appropriate full-face shield that conform to AS1336/1337.
<b>Hands</b>	Any Gloves approved for chemical hazards that conform to AS2161.
<b>Skin</b>	Trousers, Long sleeved shirt and closed shoes.
<b>Respiratory</b>	If determined an inhalation risk is present. Use a Half mask respirator with a cartridge certified for use with organic vapours and conforms to the requirements of AS1715/1716).

## Section 9 Physical and Chemical Properties

<b>Appearance</b>	Free flowing liquid
<b>Colour</b>	Clear
<b>Odour</b>	Characteristic
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not available
<b>Boiling Point</b>	82°C
<b>Melting Point</b>	Not available
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	12°C
<b>Flammability</b>	Highly Flammable
<b>Upper and Lower Explosive Limits</b>	1.8% - 12.0% (v/v)
<b>Vapour Pressure</b>	4.4 kPa @20°C
<b>Vapour Density</b>	Not available
<b>Specific Gravity</b>	0.78 g/ml @ 25°C

<b>Solubility</b>	Miscible with water, methanol, ether, chloroform & acetone.
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	399°C
<b>Decomposition Temperature</b>	Not available
<b>Kinematic Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not available
<b>Evaporation Rate</b>	2.4 (n-Butyl Acetate = 1)

### Section 10. Stability and Reactivity

<b>Stability of Substance</b>	Stable under normal conditions. Unstable in the presence of incompatible materials may liberate poisonous fumes.
<b>Possibility of hazardous reactions</b>	No data available.
<b>Conditions to Avoid</b>	Avoid heat, sparks, flames or direct sunlight. Do not combine part drums of the same product. Use in a well-ventilated area.
<b>Incompatible Materials</b>	Avoid contact with oxidising agents, alkali metals, acids, acid chlorides, ammonia and potassium tertbutoxide.
<b>Hazardous Decomposition Products</b>	On burning will emit toxic fumes including those of carbon monoxide. The packaging material may also burn to emit noxious fumes.

### Section 11 Toxicological Information

#### Acute Effects:

<b>Swallowed</b>	Although ingestion is not thought to produce harmful effects (as classified under EC Directives), the material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). LD50 (mouse) = 3600mg/kg.
<b>Dermal</b>	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.
<b>Inhalation</b>	The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation, of the material, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress.
<b>Eye</b>	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur. Isopropanol vapour may cause mild eye irritation at 400 ppm. Splashes may cause severe eye irritation, possible corneal burns and eye damage.
<b>Skin</b>	Not applicable.

#### Chronic Effects:

<b>Carcinogenicity</b>	Not applicable.
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<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	Not applicable.

## Section 12. Ecotoxicological Information

<b>Product:</b>	
<b>Persistence and degradability</b>	Substantially biodegradable.
<b>Bioaccumulation</b>	Low potential for bioaccumulation.
<b>Mobility</b>	No data available.
<b>Other adverse effects</b>	No data available.

## Section 13. Disposal Considerations

### Disposal Method:

Can be disposed of in a sewage treatment facility provided it is first diluted with sufficient water to bring the mixture below the flammable threshold (less than 2% IPA by volume) i.e. to raise the flash point to above 98°C. This requirement is included to ensure that flammable substances do not collect in pockets of sewage collection system with resultant fires or vapour explosions. Large volumes may be suitable for re-distillation by solvent contractors.

**Precautions or methods to avoid:** Empty containers may contain hazardous residues. Labels should not be removed from containers until they have been appropriately cleaned. Do not cut, puncture or weld on or near to the containers. Containers should be cleaned by approved methods and then re-used or disposed of by landfill. After cleaning, all existing labels should be removed. Do not incinerate closed containers.

## Section 14 Transport Information

**This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012**



### Road, Rail, Sea and Air Transport

<b>UN No</b>	1219
<b>Class - Primary</b>	3
<b>Packing Group</b>	II
<b>Proper Shipping Name</b>	ISOPROPANOL or ISOPROPYL ALCOHOL
<b>Marine Pollutant</b>	No
<b>Special Provisions</b>	If the product's individual container is below 1L, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

## Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Solvents (Flammable) – HSR002650

<b>HSW (HS) Regulations 2017 and EPA Notices</b>	<b>Trigger Quantity</b>
Certified Handler	Not required
Location Certificate	100L (>5L), 250L (<5L), 50L open
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	250L
Emergency Response Plan	1000L
Secondary Containment	1000L
Fire Extinguisher	250L = 2X
Restriction of Use	Only use for the intended purpose.

## **Section 16 Other Information**

### **Glossary**

Cat	Category
EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

### **References:**

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2020 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

### **Disclaimer**

This SDS has been prepared from current technical data and summarises at the date of issue our best knowledge of the health and safety information of the product, and how to safely handle and use the product in the work place. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact the company.

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